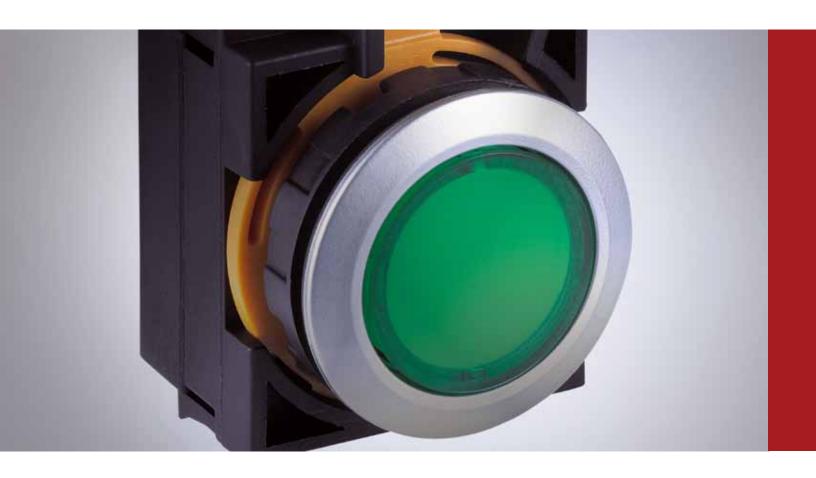


Think Automation and beyond...



Switches & Pilot Devices

Safety, Style and Flexibility



Safety

Third-generation Safety Construction

Two-action removal of contact blocks

IDEC's original two-action push-turn locking lever provides a higher level of safety by preventing unexpected release of the locking lever. In addition, the position of the locking lever can be used to verify if the contact block was installed securely by checing from the back of the panel.

Locking lever integrated with guard

Prevents locking lever from unexpected release or damage by trapped wires.





IP20 Finger-safe Terminals

Finger-safe, IP20 terminals prevent electrical shock.



Bezel Black or metallic



Illuminated Pushbuttons - Page 6

- Round flush and extended
- Illumination colors: amber, blue, green, white, red, yellow



Non-illuminated Pushbuttons - Page 8

- Round flush and extended
- Button colors: black, blue, green, red, yellow, white



Pilot Lights - Page 9

- Round flush and extended
- Illumination colors: amber, blue, green, white, red, yellow

The IDEC commitment to assuring safety in all operating environments has resulted in stylish, compact and space-saving switches and pilot devices. The innovative two-step locking lever integrated with a guard provides a higher level of safety, and the low projection from the panel surface reduces the possibility of unexpected activation or operator damage. The CW series adds a sleek and stylish image to the panel with black or metallic bezels. The shortest depth behind the panel in its class contributes to reducing machine size.

Design & Style

Sleek and stylish switches with a 2.5mm-thick bezel

The CW series give a sleek, stylish image to your machine or control panel. Because of the slim profile, the surface is safer as there is less chance of unexpected operation or accident by hitting the switch. The design also means that the switch is cleaner as it has less dust build-up.

Short depth behind the panel Space-saving design

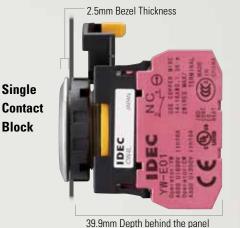
Short depth behind the panel allows for smaller machines and panels. Up to 3 contact blocks (non-illuminated models) or 2 contact blocks (illuminated models) can be installed. Use with IDEC FB series or other control boxes.

- 300V AC, 10A contact rating
- No transformer needed—the same depth behind the panel—for any illumination voltage.
- Up to 6 total contacts per switch are possible

Depth behind the panel comparison

The depth behind the panel of the CW series is shorter than conventional switches, reducing the amount of space needed in the control panel.





2.5mm Bezel Thickness

Shortest in its class

Actual size

FEC YW-EW02

PEC YW-EW02

Pet from the take of the tak

59.9mm Depth behind the panel



Selector Switches - Page 10

• Knob Operator 2- and 3-position



Selector Switches - Page 10

- Lever Operator 2- and 3-position
- Lever operator with an easy grip



Dual

Contact Block

Key Selector Switches - Page 13

- 7 different wave-keys available
- Hard to duplicate, wave-key ensures a high level of safety



ø22mm Flush Mount CW Switches & Pilot Devices

Flush bezel projects only 2.5mm from front of panel and as little as 39.9mm behind the panel!

- ø22.3mm mounting hole compliant with IEC 60947-5-1
- 3.5mm operator travel for pushbuttons ensures comfortable and reliable operation
- Up to 6 contacts per switch are possible with use of dual contact blocks
- Black and metallic bezels available
- Illuminated pushbuttons, pushbuttons, pilot lights, selector switches and key selector switches are available
- Direct opening NC contact
- Seven different keys can be chosen for key selector switches
- 10A contact rating; up to three contact blocks for non-illuminated and two contact blocks for illuminated models can be connected
- · Contact blocks can be removed by using the locking lever
- IP20 finger-safe screw terminals
- UL Type 4X rating

Applicable Standards	Mark	File No. or Organization
UL508 CSA C22.2 No.14	CULUS	UL/c-UL File No. E68961
EN60947-5-1	TUV	TÜV SÜD
L1100347-3-1	((EC Low Voltage Directive

Contact Ratings

oontaot natingo							
Rated Insulation Voltage (Ui)					300V		
Rated Ther	mal Current (I	th)			10A		
Rated Oper	ating Voltage	(Ue)		24V	120V	240V	
		AC	Resistive Load (AC-12)	10A	10A	6A	
	Electrical Life	50/60 Hz	Inductive Load (AC-15)	10A	6A	3A	
50,000 operations Rated Operating	DC	Resistive Load (DC-12)	8A	2.2A	1.1A		
		Inductive Load (DC-13)	4A	1.1A	0.55A		
Current (le)		AC	Resistive Load (AC-12)	5A	5A	3A	
		50/60 Hz	Inductive Load (AC-15)	5A	3A	1.5A	
		DC	Resistive Load (DC-12)	4A	1.1A	0.55A	
		DG	Inductive Load (DC-13)	2A	0.55A	0.27A	
Contact Material				Silver			

- Minimum applicable load (reference value): 3V AC/DC, 5 mA (Applicable range is subject to the operating conditions and load.)
- The operational current represents the classification by making and breaking currents (IEC 60947-5-1).
- 3. UL, c-UL rating: A300

Weights

Illuminated Pushbutton	46g (CW1L-M1E02QH, 2 contacts) 62g (CW1L-M1E22QH, 4 contacts)
Pushbutton	45g (CW1B-M1E03, 3 contacts) 52g (CW1B-M1E22, 4 contacts)
Pilot Light	27g (CW1P-1EQH)
Selector Switch	48g (CW1S-2E03, 3 contacts) 55g (CW1S-2E22, 4 contacts)
Key Selector Switch	61g (CW1K-2AE03, 3 contacts) 68g (CW1K-2AE22, 4 contacts)



Specifications

Specifications					
Operating Temperature	Non-illuminated: -25 to +60°C (no freezing) LED illuminated: -25 to +55°C (no freezing)				
Operating Humidity	45 to 85% RH (no condensation)				
Storage Temperature	−40 to +80°C				
Contact Resistance	50 mΩ maximum (initial value)				
Insulation Resistance	100 MΩ minimum (500V DC megger)				
Overvoltage Category	II (IEC 60664-1)				
Impulse Withstand Voltage	2.5 kV (IEC60664-1/60947-5-1)				
Pollution Degree	3 (IEC60947-5-1)				
Vibration Resistance	Operating extremes: 5 to 55Hz, amplitude 0.5 mm				
Shock Resistance	Operating extremes: 100 m/s ² Damage limits: 1000 m/s ²				
Mechanical Life (minimum operations)	Pushbutton, illuminated pushbutton: 2,000,000 Selector switch: 250,000 Key selector switch: 250,000				
Electrical Life (minimum operations)	50,000 (see Contact Ratings) 100,000 (see Contact Ratings) (switching frequency 1800 operations/h)				
Degree of Protection (IEC60529)	Panel front: IP65, IP66, IP67 (see chart on page 5) Terminals: IP20 Type 4X				
Short-circuit Protection	250V/10A fuse, (Type aM IEC60269-1, IEC602069-2)				
Electrical Shock Protection	Class II (IEC61140)				
Terminal Style	Screw terminal (M3.5 slotted Phillips screw)				
Bezel Material	Polyamide				
Applicable Wire Size	Up to 2 wires of 2 mm ² (solid wire ø1.6) maximum (AWG14 to 16) (Ring terminal cannot be used)				
Recommended Tightening Torque	Terminal: 1.0 to 1.3 N·m Locking ring: 1.2 N·m				

Direct Opening of Key Selector Switch

	2-position (3NC)	3-position (2NC)
Operator Angle for Direct Opening Action	90°	45°
Minimum Operator Torque for Direct Opening Action	0.2 N·m	0.3 N·m
Maximum Operator Angle	90°	45°

LED Module

Rated Insulation Voltage (Ui)	250V					
Rated Operating Voltage (Ue)	6V AC/DC	12V AC/DC	24V AC/DC	100/120V AC	230/240V AC	
Operating Voltage Range	6V AC/DC±10%	12V AC/DC±10%	24V AC/DC±10%	100/120V AC±10%	230/240V AC +/-10%	
Illumination Color Code @		Δ	(amber), G (green), PV	(white), R (red), S (blue)		
LED Module Part Number	CW-EAQ2@	CW-EAQ3@	CW-EAQ4@	CW-EAQH@	CW-EAQM4@	
Current Draw	15 mA	15 mA	16.5 mA	18 mA	18 mA	
Life (reference value)		Approx. 30,000 hours				
Internal Circuit	X1 - R X2 -			X1	LED Chip Rectifying Diode RESISTOR RESISTOR Reparation	

- 1. Specify an illumination color code in place of $\ensuremath{\mathfrak{D}}$ in the part number.
- 2. Use the white (PW) LED module for yellow illumination.

Contact Blocks

Contact Block	Single Contact Block		Double Contact Block			
Contact	1NO	1NC	2N0	2NC	1NO-1NC	
Part No.	YW-E10R	YW-E01	YW-EW2R0	YW-EW02	YW-EW1R1	
Shape		10.0		13 (d)	1 5 40 1 1 5 40 1	
Housing Color	Blue/Black	Reddish Purple	Blue/Black	Reddish Purple	Reddish Purple/Blue	
Push Rod Color	Black	Red	Black	Red	Gray	
Terminal No.	3-4	1-2	1st tier: 13-14 2nd tier: 23-24	1st tier: 11-12 2nd tier: 21-22	1st tier: (NO) 13-14 2nd tier: (NC) 21-22	
Weight (approx.)	11g		19g			

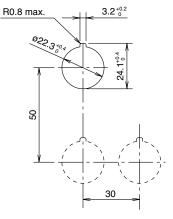
Degree of Protection

Rating	IP65	IP66	IP67	UL Type 4X
Illuminated Pushbutton	Yes	Yes *	Yes *	Yes *
Pilot Light	Yes	Yes	No	Yes
Pushbutton	Yes	Yes *	Yes *	Yes *
Selector Switch	Yes	Yes	Yes	Yes
Key Selector Switch	Yes	Yes	No	Yes

^{*}When used with rubber boot (CW9Z-D11, -D12)

Mounting Hole Layout

IEC 60947-5-1 compliant



Note: Determine mounting centers to ensure proper spacing.



Illuminated Pushbuttons

Illuminated Pushbuttons (Assembled)

Shape	Operating Voltage	Contact Configuration	Black Bezel	Metallic Bezel	Illumination Color Code ②
Round Flush CW□L-□1	6V AC/DC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-31E1002@ CW1L-31E0102@ CW1L-31E1102@ CW1L-31E2002@ CW1L-31E0202@ CW1L-31E2202@	CW4L-31E1002@ CW4L-31E0102@ CW4L-31E1102@ CW4L-31E2002@ CW4L-31E0202@ CW4L-31E2202@	
	12V AC/DC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-@1E1003@ CW1L-@1E0103@ CW1L-@1E1103@ CW1L-@1E2003@ CW1L-@1E0203@ CW1L-@1E2203@	CW4L-@1E1003@ CW4L-@1E0103@ CW4L-@1E1103@ CW4L-@1E2003@ CW4L-@1E0203@ CW4L-@1E2203@	
(black bezel)	24V AC/DC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-@1E1004@ CW1L-@1E0104@ CW1L-@1E1104@ CW1L-@1E2004@ CW1L-@1E0204@ CW1L-@1E2204@	CW4L-31E1004@ CW4L-31E0104@ CW4L-31E1104@ CW4L-31E2004@ CW4L-31E0204@ CW4L-31E0204@	A: amber G: green PW: white R: red S: blue Y: yellow
	100/120V AC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-@1E100H@ CW1L-@1E010H@ CW1L-@1E110H@ CW1L-@1E200H@ CW1L-@1E020H@ CW1L-@1E220H@	CW4L-31E100H@ CW4L-31E010H@ CW4L-31E110H@ CW4L-31E200H@ CW4L-31E020H@ CW4L-31E220H@	_
(metallic bezel)	230/240V AC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-31E100M42 CW1L-31E010M42 CW1L-31E110M42 CW1L-31E200M42 CW1L-31E020M42 CW1L-31E220M42	CW4L-@1E10QM4@ CW4L-@1E01QM4@ CW4L-@1E11QM4@ CW4L-@1E20QM4@ CW4L-@1E02QM4@ CW4L-@1E22QM4@	_
Round Extended CW□L-□2	6V AC/DC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-32E1002@ CW1L-32E0102@ CW1L-32E1102@ CW1L-32E2002@ CW1L-32E0202@ CW1L-32E2202@	CW4L-32E1002@ CW4L-32E0102@ CW4L-32E1102@ CW4L-32E2002@ CW4L-32E0202@ CW4L-32E0202@	
	12V AC/DC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-32E1003@ CW1L-32E0103@ CW1L-32E1103@ CW1L-32E2003@ CW1L-32E0203@ CW1L-32E2203@	CW4L-32E1003@ CW4L-32E0103@ CW4L-32E1103@ CW4L-32E2003@ CW4L-32E0203@ CW4L-32E0203@	_
(black bezel)	24V AC/DC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-32E1004@ CW1L-32E0104@ CW1L-32E1104@ CW1L-32E2004@ CW1L-32E0204@ CW1L-32E2204@	CW4L-32E1004@ CW4L-32E0104@ CW4L-32E1104@ CW4L-32E2004@ CW4L-32E0204@ CW4L-32E0204@	A: amber G: green PW: white R: red S: blue Y: yellow
(metallic bezel)	100/120V AC	1N0 1NC 1NO-1NC 2NO 2NC 2NO-2NC	CW1L-32E100H2 CW1L-32E010H2 CW1L-32E110H2 CW1L-32E200H2 CW1L-32E020H2 CW1L-32E220H2	CW4L-32E100H@ CW4L-32E010H@ CW4L-32E110H@ CW4L-32E200H@ CW4L-32E020H@ CW4L-32E020H@	
	230/240V AC	1NO 1NC 1NO-1NC 2NO 2NC 2NC-2NC	CW1L-32E10QM4@ CW1L-32E01QM4@ CW1L-32E11QM4@ CW1L-32E20QM4@ CW1L-32E02QM4@ CW1L-32E02QM4@	CW4L-@2E10QM4@ CW4L-@2E01QM4@ CW4L-@2E11QM4@ CW4L-@2E20QM4@ CW4L-@2E02QM4@ CW4L-@2E22QM4@	

- 1. Specify an illumination color code in place of $\ensuremath{\mathfrak{D}}$ in the Part Number
- 2. Specify function code in place of ③ in the Part Number. M: momentary, A: maintained
- 3. See page page 16 for dimensions.
- 4. See next page for replacement LED modules.
- 5. A dummy block is installed when one contact block is used.
- 6. Additional contact configurations available, contact IDEC for more details.

Illuminated Pushbuttons (Sub-assembled)

Conta	ct Block		LED Module		Mounting Adaptor		Operator		Lens		Completed Unit
100		+	DESCRIPTION OF THE PROPERTY OF	+	Ø	+	1	+	0	=	6

Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number
		0:1-	1N0	YW-E10R
	Finger-safe Screw terminal	Single	1NC	YW-E01
			2N0	YW-EW2R0
		Double	2NC	YW-EW02
			1N0-1NC	YW-EW1R1
1	CW-DB			

LED Module

Style	Part Number
2000 - 12 CO	CW-EAQ @ ①

- 1. In place of 1, specify the Lens/LED Color Code from table.
- 2. In place of ②, specify the Voltage Code from table.

Contact Block Mounting Adaptor

contact Brook mounting / taupt				
Style	Part Number			
O	CW-CN			

Operator

Style			Black Bezel	Metallic Bezel
1	Momentary	Round flush	CW1B-M10	CW4B-M10
		Round extended	CW1B-M20	CW4B-M20
10	Maintained	Round flush	CW1B-A10	CW4B-A10
	Maintained	Round extended	CW1B-A20	CW4B-A20

Lens

Style		Part number
	Round flush	CW9Z-L11 ①
	Round extended	CW9Z-L12①

1. In place of ①, specify the Lens/LED Color Code from table.

① Lens/LED Color Code

Color	Code
Amber	А
Green	G
Red	R
Blue	S
White*	PW or C
Yellow	Υ

^{*}Use PW for LED module, use C for lens.

② Voltage Code

Voltage	Code
6V AC/DC	2
12V AC/DC	3
24V AC/DC	4
100/120V AC	Н
230/240V AC	M4

800.262.4332 www.IDEC.com/switches

Non-illuminated Pushbuttons

Non-illuminated Pushbuttons (Assembled)

Shape	Contact Configuration	Black Bezel	Metallic Bezel	Button Color Code ①
Round Flush CW□B-□1 (black bezel)	1NO 1NC 1NO-1NC 2NO 2NC 2NO-1NC* 1NO-2NC* 3NO* 3NC* 2NO-2NC	CW1B-③1E10① CW1B-③1E01① CW1B-③1E11① CW1B-③1E20① CW1B-③1E22① CW1B-M1E21① CW1B-M1E12① CW1B-M1E30① CW1B-M1E30① CW1B-M1E30① CW1B-M1E30① CW1B-M1E30①	CW4B-31E100 CW4B-31E010 CW4B-31E110 CW4B-31E200 CW4B-31E020 CW4B-M1E210 CW4B-M1E120 CW4B-M1E300 CW4B-M1E300 CW4B-M1E030 CW4B-31E220	B: black G: green R: red
Round Extended CW□B-□2 (metallic bezel)	1N0 1NC 1N0-1NC 2N0 2NC 2N0-1NC* 1N0-2NC* 3N0* 3NC* 2N0-2NC	CW1B-③2E10① CW1B-③2E01① CW1B-③2E11① CW1B-③2E20① CW1B-③2E20② CW1B-M2E21① CW1B-M2E12① CW1B-M2E30① CW1B-M2E30① CW1B-M2E30① CW1B-M2E30① CW1B-M2E03① CW1B-M2E03①	CW4B-32E10 © CW4B-32E01 © CW4B-32E11 © CW4B-32E20 © CW4B-32E02 © CW4B-MZE21 © CW4B-MZE12 © CW4B-MZE30 © CW4B-MZE30 © CW4B-MZE30 © CW4B-MZE03 © CW4B-32E22 ©	S: blue W: white Y: yellow

- 1. Specify a button color code in place of ① in the part number.
- 2. Specify function code in place of ③ in the Part Number. M: momentary, A: maintained
- 3. See page page 17 for dimensions.
- 4. Two or one dummy block is installed when one or two contact blocks are used, respectively.
- 5. *These contact configurations are not available in maintained action.
- 6. Additional contact configurations available; contact IDEC for more details.

Non-illuminated Pushbuttons (Sub-assembled)





Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number
		Cinala	1N0	YW-E10R
		Single	1NC	YW-E01
	Finger-safe Screw terminal Doubl	Double	2N0	YW-EW2R0
			2NC	YW-EW02
			1N0-1NC	YW-EW1R1
1	Dummy block			CW-DB

Contact Block Mounting Adaptor

Style	Part Number
O	CW-CN

① Button Color Code

Code
В
G
R
S
W
Y

Operator*

- Parmie					
Sty	Style			Metallic Bezel	
	Momentary	Round	CW1B-M1①	CW4B-M1®	
	Mome	Round extended	CW1B-M2①	CW4B-M2①	
	Maintained	Round	CW1B-A1①	CW4B-A1①	
		Round extended	CW1B-A2①	CW4B-A2①	

- 1. Specify a button color code in place of ①.
- 2. *Operator button is not removable from operator.

Pilot Lights (Assembled)

Shape	Operating Voltage	Black Bezel	Metallic Bezel	Illumination Color Code ②
Round Flush Lens CW□P-1	6V AC/DC	CW1P-1EQ2@	CW4P-1EQ2@	
	12V AC/DC	CW1P-1EQ3@	CW4P-1EQ3@	
	24V AC/DC	CW1P-1EQ4@	CW4P-1EQ4@	
	100/120V AC	CW1P-1EQH@	CW4P-1EQH@	- A: amber
(black bezel)	230/240V AC	CW1P-1EQM4@	CW4P-1EQM4@	G: green R: red
Round Dome Lens CW□P-2	6V AC/DC	CW1P-2EQ2@	CW4P-2EQ2@	S: blue PW: white Y: yellow
THE REAL PROPERTY.	12V AC/DC	CW1P-2EQ3@	CW4P-2EQ3@	Y: yellow
	24V AC/DC	CW1P-2EQ4@	CW4P-2EQ4@	
	100/120V AC	CW1P-2EQH@	CW4P-2EQH@	
(metallic bezel)	230/240V AC	CW1P-2EQM4@	CW4P-2EQM4@	

- 1. Specify an illumination color code in place of $\ensuremath{@}$ in the Part Number
- 2. See page page 17 for dimensions.
- 3. See page page 21 for replacement LED modules.
- 4. Two dummy blocks are installed.

Pilot Lights (Sub-assembled)

Contact Block*	LED Module	Mounting Adaptor	Operator	Lens	Completed Unit
1	-	1		•	

^{*2} dummy blocks are required for each completed pilot light.

Contact Block

Styl	е	Part Number
	Dummy block	CW-DB

Contact Block Mounting Adaptor

Style	Part Number
O	CW-CN

Lens

Style	Part Number	
	Round flush	CW9Z-L11®
	Round dome	CW9Z-L15①

^{1.} In place of ①, specify the Lens/LED Color Code from table.

LED Module

Style	Part Number						
CCO STATE	CW-EAQ ② ①						

- 1. In place of 1, specify the Lens/LED Color Code from table.
- 2. In place of ②, specify the Voltage Code from table.

Operator

Style	Black Bezel	Metallic Bezel
10	CW1P-00	CW4P-00

① Lens/LED Color Code

COIDI COU C					
Color	Code				
Amber	А				
Green	G				
Red	R				
Blue	S				
White*	PW or C				
Yellow	Y				

* Use PW for LED module, use C for lens.

② Voltage Code

Voltage	Code
6V AC/DC	2
12V AC/DC	3
24V AC/DC	4
100/120V AC	Н
230/240V AC	M4

Selector Switches

Selector Switches (Assembled)

Shape	(Knob Operator)				ck t	pezel)		(metallic bezel)
	Contact	Contac	t Block		Operator Position		L R	L → R
No. of Positions	Configuration (Code)	Mounting Position	Con	tact	L	R	Maintained	Spring return from right
	1NO	1	N	10		•		
	(10)	2	-			mmy	CW□S-2E10	CW□S-21E10
		3	_			mmy mmy		
	1NC	2	_			mmy	CW□S-2E01	CW□S-21E01
	(01)	3		IC	•	lilly	OVVEO ZEOT	0000021201
		1		10		•		
	1NO-1NC	2	_		Dur	nmy	CW□S-2E11	CW□S-21E11
	(11)	3	N	IC	•			
	2N0	1	N	10		•		
	(20)	2	_		Dur	nmy	CW□S-2E20	CW□S-21E20
	(==)	3		10		•		
	2NC	1		IC	•		014/50 0500	014/50 04500
	(02)	2		-	Dur	mmy	CW□S-2E02	CW□S-21E02
		3		IC IO		•		
	2NO-1NC	2	_	10			CW□S-2E21	CW□S-21E21
	(21)	3			•		OWEO ZEZT	OW D-ZTEZT
90° 2-position		1		NO •				
·	1NO-2NC (12)	2	NC		•		CW□S-2E12	CW□S-21E12
	(12)	3	N	IC	•			
	3N0	1	_	10		•		
	(30)	2		10		•	CW□S-2E30	CW□S-21E30
		3		10		•		
	3NC	1 2		IC IC	•		CW□S-2E03	CM/=C 21F02
	(03)	3		IC			CVV□3-ZEU3	CW□S-21E03
			NO/	NO		•		
		1		NC	•			
	2NO-2NC	2	NC -	_	Dur	nmy	CW□S-2E22	CW□S-21E22
	(22)	2	NO/	NO		•		
		3	NC	NC	•			
	ANIO	1	2N0	NO NO		•		
	4NO (40)	2	-		Dur	nmy	CW□S-21E40	CW□S-21E40
	(40)	3	2N0	NO NO		•		

- 1. Specify a bezel color code in place of \Box in the part number: 1 (black bezel), 4 (metallic bezel).
- $2. \ \ Lever\ operator\ is\ also\ available.\ For\ dimensions,\ see\ page\ 18.$
- 3. To order a lever operator selector switch, insert L before E in the knob operator part number. Example: Knob Operator part number CW1S-2E10 becomes CW1S-2 \underline{L} E10 for Lever Operator.

800.262.4332 www.IDEC.com/switches

Lever Operator

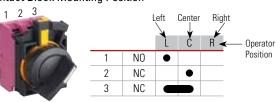


CW1S-□L (black bezel)



(metallic bezel)

Contact Block Mounting Position



No. of	Contact Configuration	Contac	t Block	Operator Position	L C R	L C R	L C R	L C R	
Positions	(Code)	Mounting Position	Туре	L C R	Maintained	Spring return from right	Spring return from left	Spring return two-way	
1NO-1NO (11N1)	1NO-1NC (11)	1 2 3	NO — NC	Dummy	CW□S-3E11	CW□S-31E11	CW□S-32E11	CW□S-33E11	
	1NO-1NC (11N1)	1 2 3	NC — NO	Dummy	CW□S-3E11N1	CW□S-31E11N1	CW□S-32E11N1	CW□S-33E11N1	
	1NO-1NC (11N2)	1 2 3	NO NC	• Dummy	CW□S-3E11N2	CW□S-31E11N2	CW□S-32E11N2	CW□S-33E11N2	
	1NO-1NC (11N3)	1 2 3	NC NO	Dummy	CW□S-3E11N3	CW□S-31E11N3	CW□S-32E11N3	CW□S-33E11N3	
	1NO-1NC (11N4)	1 2 3	NO NC	Dummy	CW□S-3E11N4	CW□S-31E11N4	CW□S-32E11N4	CW□S-33E11N4	
	2NO (20)	1 2 3	NO — NO	Dummy	CW□S-3E20	CW□S-31E20	CW□S-32E20	CW□S-33E20	
	2N0 (20N1)	1 2 3	NO NO	Dummy	CW□S-3E20N1	CW□S-31E20N1	CW□S-32E20N1	CW□S-33E20N1	
	2NC (02)	1 2 3	NC —	Dummy	CW□S-3E02	CW□S-31E02	CW□S-32E02	CW□S-33E02	
2NC (02N1) 2NO-1NC (21)		1 2 3	NC NC	Dummy	CW□S-3E02N1	CW□S-31E02N1	CW□S-32E02N1	CW□S-33E02N1	
		1 2 3	NO NO NC		CW□S-3E21	CW□S-31E21	CW□S-32E21	CW□S-33E21	
15° 3-position	2NO-1NC (21N1)	1 2 3	NO NC NO	•	CW□S-3E21N1	CW□S-31E21N1	CW□S-32E21N1	CW□S-33E21N1	
	1NO-2NC (12)	1 2 3	NO NC NC	•	CW□S-3E12	CW□S-31E12	CW□S-32E12	CW□S-33E12	
	1NO-2NC (12N1)	1 2 3	NC NO NC		CW□S-3E12N1	CW□S-31E12N1	CW□S-32E12N1	CW□S-33E12N1	
	3NO (30)	1 2 3	NO NO NO	•	CW□S-3E30	CW□S-31E30	CW□S-32E30	CW□S-33E30	
	3NC (03)	1 2 3	NC NC NC	C	Specify a bezel color code in place of □ in Part Number, 1 (blac				
2NO- (2	2NO-2NC	1 2	NO/ NO NC NC	Dummy	CW□S-3E22	CW□S-31E22	CW□S-32E22	CW□S-33E22	bezel), 4 (metallic be 2. For the contact block mounting position, so
	(22)	3	NO/ NO NC NC						page 10. 3. Lever operator is also available. For
	4NO (40)	2	NO NO	Dummy	CW□S-3E40	CW□S-31E40	CW□S-32E40	CW□S-33E40	dimensions, see pag page 18. 4. To order a lever oper selector switch, inse
		1	NO NC						L before E in the kno operator part numbe Example: Knob Operato
	2NO-2NC (22N2)	2	2NO NC NC NC	Dummy	CW□S-3E22N2	CW□S-31E22N2	2 CW□S-32E22N2	CW□S-33E22N2	part number CW1S-3E1 becomes CW1S-3 <u>L</u> E11 t Lever Operator.

Specify a bezel color code in place of □ in the Part Number, 1 (black bezel), 4 (metallic bezel)

^{2.} For the contact block mounting position, see page 10.

^{3.} Lever operator is also available. For dimensions, see page page 18.

^{4.} To order a lever operator selector switch, insert L before E in the knob operator part number. Example: Knob Operator part number CW1S-3E11

Selector Switches

Selector Switches (Sub-assembled)



Contact Block

Style	Contacts	Contact Block	Contact Configuration	Part Number	
		Cinala	1N0	YW-E10R	
	Finger-safe Screw terminal	Single	1NC	YW-E01	
13 Wa		Double	2N0	YW-EW2R0	
			2NC	YW-EW02	
			1N0-1NC	YW-EW1R1	
1	Dummy block				



Contact Block Mounting Adaptor

Style	Part Number
O	CW-CN

Operator

Style	Position	Handle	Description	Black Bezel	Metallic Bezel
		1/ 1	Maintained	CW1S-2	CW4S-2
		Knob	Spring return from right	CW1S-21	CW4S-21
	2 position		Maintained	CW1S-2L	CW4S-2L
		Lever	Spring return from right	CW1S-21L	CW4S-21L
- COL	3 position	Knob	Maintained	CW1S-3	CW4S-3
100			Spring return from right	CW1S-31	CW4S-31
(knob operator shown)			Spring return from left	CW1S-32	CW4S-32
			Spring return two-way	CW1S-33	CW4S-33
		Lever	Maintained	CW1S-3L	CW4S-3L
			Spring return from right	CW1S-31L	CW4S-31L
			Spring return from left	CW1S-32L	CW4S-32L
			Spring return two-way	CW1S-33L	CW4S-33L

Lever or knob is supplied with operator

Key Selector Switches (Assembled)

Shape	CW□K			9	(t	olack bezel)		metallic bezel)	
No of Docitions	Contact	Conta	ct Block		Operat	or Position	L R	L PR	
No. of Positions	Configuration	Mounting Position	Ty	/pe	L	R	Maintained	Spring return from right	
	1NO	1	N	10		•			
	(10)	2	-	_	D	ummy	CW□K-2AE10	CW□K-21BE10	
	(10)	3	-	_	D	ummy			
	1NC	1	-	_	D	ummy			
	(01)	2		_	D	ummy	CW□K-2AE01	CW□K-21BE01	
	(5.7)	3		1C	•				
	1NO-1NC	1		10		•		CW□K-21BE11	
	(11)	2		_		ummy	CW□K-2AE11		
		3		VC	•				
	2N0	11		10			0\4\5\4\04500	OMEN OAREO	
	(20)	2		_	D	ummy	CW□K-2AE20	CW□K-21BE20	
		<u>3</u>		10	•				
	2NC	2		NC ● Dummy		ummu.	CW□K-2AE02	CW□K-21BE02	
	(02)	3	NC		•	ullilly	CVV IN-ZALUZ	OVVER ZIDLOZ	
		1		10		•			
	2NO-1NC	2	NO NC			•	CW□K-2AE21	CW□K-21BE21	
	(21)	3			•		011 E1 E1 E2 !	OTTEN ETBEET	
90° 2-position		1	NO			•			
·	1NO-2NC	2	NC		•		CW□K-2AE12	CW□K-21BE12	
	(12)	3	N	NC					
	3NO	1	N	N0		•	CW□K-2AE30	CW□K-21BE30	
	(30)	2	N	10	•				
	(00)	3	N0			•			
	3NC	1		VC	•				
	(03)	2		IC IC	•		CW□K-2AE03	CW□K-21BE03	
		3	r	NO NO	•	•			
		1	NO/NC	NC	•				
	2NO-2NC	2	_	ING		L ummy	CW□K-2AE22	CW□K-21BE22	
	(22)			NO	D	•	GW IN-ZALZZ	GVV LIK-Z I DLZZ	
		3	NO/NC	NC	•				
		1	2N0	NO		•			
	4N0		1	NO	-	•	ONAVEN CAFAS		
	(40)	2	-		D	ummy	CW□K-2AE40	CW□K-21BE40	
		3	2N0	NO NO					
				INU					

- 1. Specify a bezel color code in place of □ in the Part Number: 1 (black bezel), 4
- 2. On the spring-returned models, the key can be released only from the maintained 6. For the contact block mounting position, see page 14. position. On the maintained models, the key can be released from any position.

 7. For dimensions, see page page 19. Key retained positions are also available. See below.
- 3. Two keys are supplied.
- 4. Key cylinder material: Metal

- 5. Besides the standard key (key number 0H), six other keys are also available. See

- 8. When ordering an optional key or optional key retained positions, specify designation codes as shown below:

Example: CW1K-2AE10-1H Key removal position code -

2-position

- A: Removable in all positions
- B: Removable in left only
- C: Removable in right only
- 3-position
- Removable in all positions
- Removable in left and center
- Removable in right and center
- Removable in right and left
- Removable in left only

Removable in center only

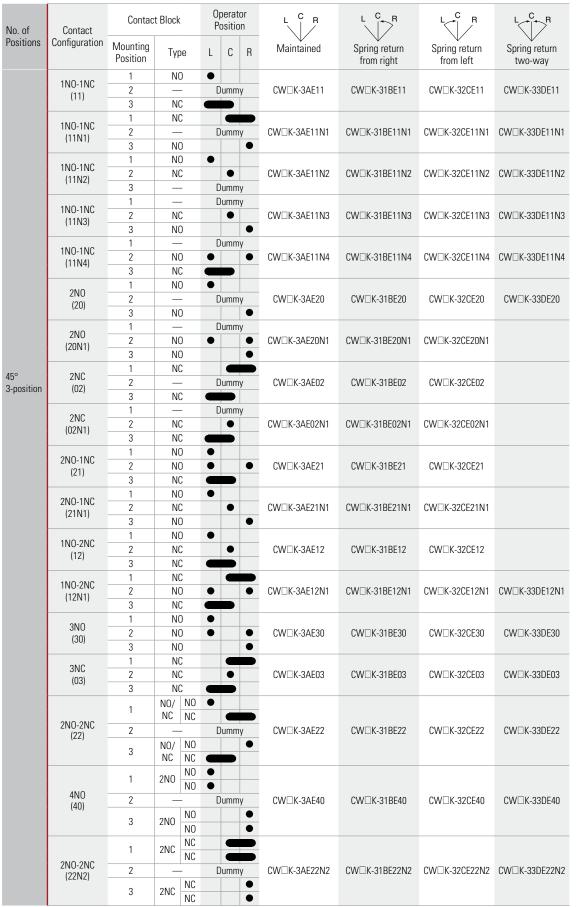
Removable in right only

Standard key (0H, reversible)

1H to 2H: Reversible key 3H to 6H: Non-reversible keyy

Key number is indicated on the key cylinder. Standard keys do not have a key number indication.

Key Selector Switches



Mounting Position

1 2 3

	L	eft (Center	Right
Oper Posi		L	C	R
1	N0	•		
2	NC		•	
3	NC			

- Specify a bezel color code in place of ☐ in the Type No.: 1 (black bezel), 4 (metallic bezel)
- 2. On the spring-returned types, the key can be released only from the maintained position. On the maintained types, the key can be released from every position. Key retained positions are also available. See page 13.
- 3. Two keys are supplied.
- Key cylinder material:
 Metal
- Besides the standard key (key number 0H), six other keys are also available. See page 13.
- 6. For the contact block mounting position, see above
- 7. For dimensions, see page 19.

Key Selector Switches (Sub-assembled)



Contact Block

Style	Contacte		Contact Configuration	Part Number
		Cinala	1N0	YW-E10R
	E	Single	1NC	YW-E01
	Finger-safe Screw terminal		2N0	YW-EW2R0
		Double	2NC	YW-EW02
			1N0-1NC	YW-EW1R1
	Dummy bloc	CW-DB		

Contact Block Mounting Adaptor

CW-CN	

Operator

Style	Position	Description	Black Bezel	Metallic Bezel
		Maintained, key removable all positions	CW1K-2A	CW4K-2A
	0:::	Maintained, key removed left only	CW1K-2B	CW4K-2B
	2 position	Maintained, key removed right only	CW1K-2C	CW4K-2C
		Spring return from right	CW1K-21B	CW4K-21B
		Maintained, key removable all positions	CW1K-3A	CW1K-3A
		Maintained, key removed left and center only	CW1K-3B	CW4K-3B
		Maintained, key removed right and center only	CW1K-3C	CW4K-3C
		Maintained, key removed center only	CW1K-3D	CW4K-3D
		Maintained, key removed left and right only	CW1K-3E	CW4K-3E
and the same of th		Maintained, key removed left only	CW1K-3G	CW4K-3G
	2 position	Maintained, key removed right only	CW1K-3H	CW4K-3H
	3 position	Spring return from right, key removed left and center only	CW1K-31B	CW4K-31B
		Spring return from right, key removed center only	CW1K-31D	CW4K-31D
		Spring return from right, key removed left only	CW1K-31G	CW4K-31G
		Spring return from left, key removed right and center only	CW1K-32C	CW4K-32C
		Spring return from left, key removed center only	CW1K-32D	CW4K-32D
		Spring return from left, key removed right only	CW1K-32H	CW4K-32H
		Spring return two-way, key removed center only	CW1K-33D	CW4K-33D

² keys supplied with operator.

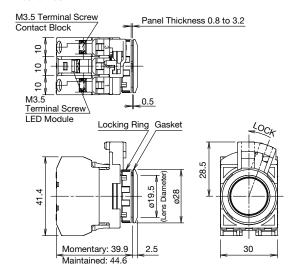


Dimensions (mm)

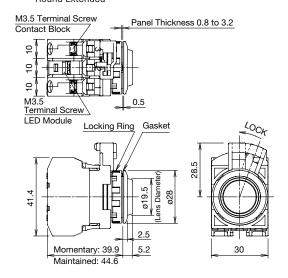
Illuminated Pushbuttons

1 to 2 Contacts

Round Flush

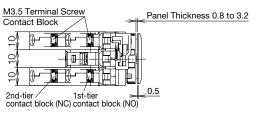


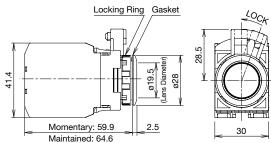
Round Extended



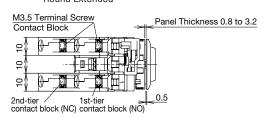
4 Contacts

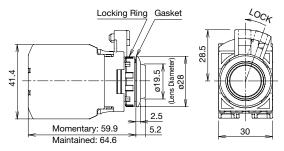
Round Flush





Round Extended



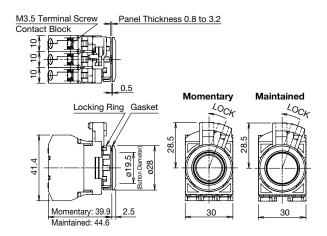


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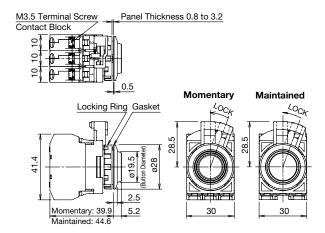
Pushbuttons

1 to 2 Contacts

Round Flush



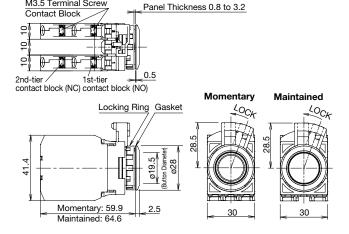
Round Extended



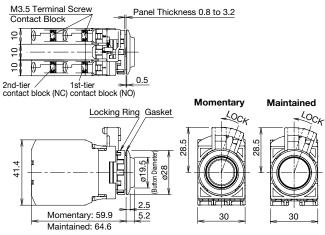
4 Contacts

Round Flush

M3.5 Terminal Screw

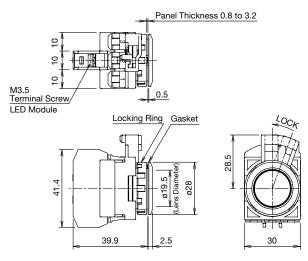


Round Extended

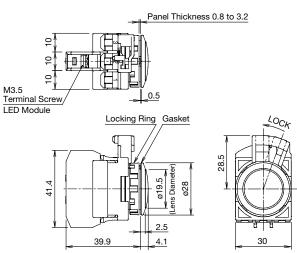


Pilot Lights

Round Flush



Round Dome

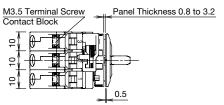


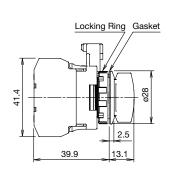
Dimensions (mm)

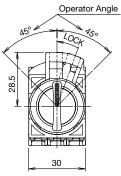
Selector Switches

1 to 3 Contacts

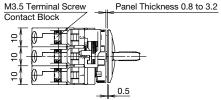
Knob Operator

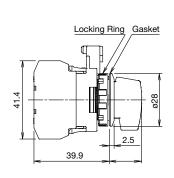


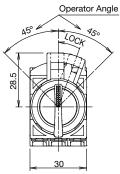




Lever Operator

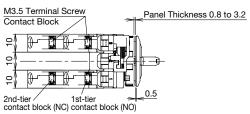


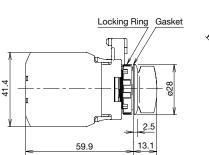


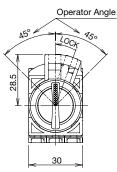


4 Contacts

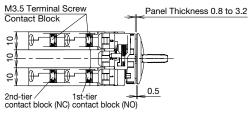
Knob Operator

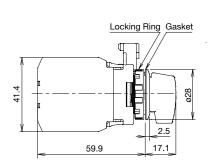


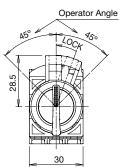




Lever Operator



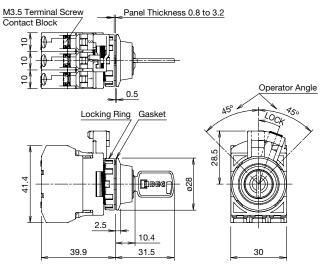




Dimensions (mm)

Key Selector Switches

1 to 3 Contacts



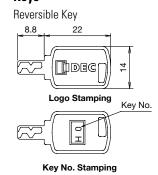
Key No: 0H to 2H (reversible key)



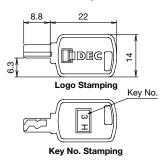


Key No: 3H to 6H (non-reversible key)

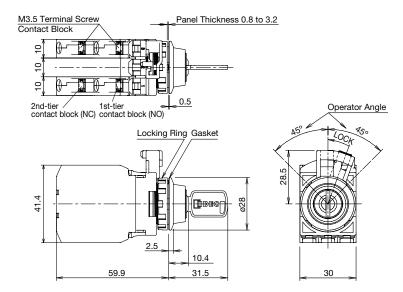
Keys



Non-reversible Key



4 Contacts





Accessories/Parts

Accessories

Shape	Material	Part Number	Package Quantity	Remarks
Locking Ring Wrench	Brass	MW9Z-T1	1	Used to tighten the locking ring when installing the CW series control unit in a panel cut-out. Weight: Approx 150g
Mounting Hole Plug	Polyamide (black)	LW9Z-BP1	1	Used to plug an unnecessary ø22.3mm hole in the panel. Degree of protection: IP65 Panel thickness: 0.8 to 6.0 mm

Replacement Parts

Replacement Part		Matarial	Part Number	Ddis-
Shape		Material	rart Number	Remarks
Lens 3	1 Round Flush	Polyalylate	CW9Z-L11@	Color code ②: A (amber), C (clear), G (green), R (red), S (blue), Y (yellow) Use a clear (C) lens for white (PW) illumination.
	2 Round Extended	Polyalylate	CW9Z-L12@	1: For illuminated pushbutton, pilot light 2: For illuminated pushbutton
	3 Round Dome	Polyalylate	CW9Z-L15@	3: For pilot light
Single Contact Block Push rod		1NO	YW-E10R	Push rod color: Black Housing color: Blue/black Terminal No.: 3-4
T don't look	Housing	1NC	YW-E01	Push rod color: Red Housing color: Reddish purple Terminal No.: 1-2
Double Contact Block		2N0	YW-EW2R0	Push rod color: black Housing color: blue and black Terminal No. 1st tier: 13-14, 2nd tier: 23-24
Push rod	Housing	2NC	YW-EW02	Push rod color: red Housing color: reddish purple Terminal No. 1st tier: 11-12, 2nd tier: 21-22
and an		1NO, 1NC	YW-EW1R1	Push rod color: gray Housing color: reddish purple/blue Terminal No. 1st tier: 13-14, 2nd tier: 21-22
Rubber Round Boot Flush (clear)			CW9Z-D11	
(cledi)	Round Extended		CW9Z-D12	
Dummy Block		Polyamide (black)	CW-DB	
Locking Ring)	Polyamide (black)	CW9Z-LN	
Gasket)	Nitrile rubber	CW9Z-WM	Waterproof gasket between CW control unit bezel and the mounting panel.
Nameplate	5	Plastic	CWAM-OB	
	reversible versible	Zinc (nickel-plated)	LA9Z-SK-□	Specify a key No. in place of □. OH: Standard key (reversible) 1H to 2H: Reversible key 3H to 6H: Non-reversible key For dimensions, see page 17.

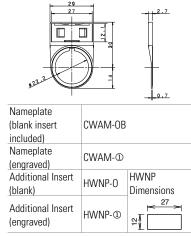
LED Modules

	Shape	Operating Voltage Range	Current Draw	Part Number	Illumination Color Code @
	puller.	6V AC/DC±10%	15 mA	CW-EAQ2@	Specify an illumination color code
	201	12V AC/DC±10%	15 mA	CW-EAQ3@	in place of ② in the Part Number A: amber
		24V AC/DC±10%	16.5 mA	CW-EAQ4@	G: green
		100/120V AC±10%	18 mA	CW-EAQH@	PW: white R: red
		230/240V AC±10%	18 mA	CW-EAQM4@	S: blue

Use a white (PW) LED module for yellow (Y) illumination.

CWAM-Black Plastic

Nameplate



- In place of ①, insert either the standard legend code from table below or custom engraving delimited by " ".
- 2. Standard engravings are available at no charge.

Standard Legend Codes

	Pushbu	ittons		Pushbu	uttons/S	elector Switches		Selector Switches	8
Legend	Code	Legend	Code	Legend	Code	Legend	Code	Legend	Code
AUT0	101	OPEN	116	AUTO-MAN	201	REV-FOR	216	AUTO-MAN-OFF	301
CLOSE	102	OUT	117	CLOSE-OPEN	202	RUN-JOG	217	AUTO-OFF-MAN	302
DOWN	103	RAISE	118	DOWN-UP	203	RUN-SAFE	218	CLOSE-OFF-OPEN	303
EMERG.STOP	104	RESET	119	FAST-SLOW	204	SAFE-RUN	219	DOWN-OFF-SLOW	304
FAST	105	REVERSE	120	FOR-REV	205	SLOW-FAST	220	FAST-OFF-SLOW	305
FORWARD	106	RUN	121	HAND-AUTO	206	START-STOP	221	FOR-OFF-REV	306
HAND	107	SLOW	122	HIGH-LOW	207	STOP-START	222	LEFT-OFF-RIGHT	307
HIGH	108	START	123	JOG-RUN	208	UP-DOWN	223	LOWER-OFF-RAISE	308
IN	109	STOP	125	LEFT-RIGHT	209	OI (Int'I OFF ON)	250	OFF-MAN-AUTO	309
INCH	110	TEST	126	LOWER-RAISE	210			OFF-SLOW-FAST	310
JOG	111	UP	127	MAN-AUTO	211			OFF-1-2	311
LOW	112	I (Int'I On)	150	OFF-ON	212			OPEN-OFF-CLOSE	312
LOWER	113	O (Int'l Off)	151	ON-OFF	213			SLOW-OFF-FAST	313
OFF	114	EM0	152	OPEN-CLOSE	214			SUMMER-OFF-WINTER	314
ON	115			RAISE-LOWER	215			UP-OFF-DOWN	315
								1-0FF-2	316
								HAND-OFF-AUTO	317

- 1. To order engraved nameplates, add legend code to nameplate part number.
- 2. Character height based on the number of characters and size of nameplate. Standard character size is 3/16".
- 3. Nameplates with standard legends are the same list price as blank nameplates.

Nameplates Order Form — CW Series

Copy this order form and use it to specify Letter Height, Custom Engravings, Location of Engraving on Nameplate, and Quantity Desired.

To ensure engraving accuracy, fax it to your IDEC representative or Distributor.

IDEC Rep/Distributor Contact:	Your Company:
PO number (if known):	Name:
IDEC Rep/Distributor Phone:	Telephone:
IDEC Rep/Distributor Fax & Email:	Fax & Email:

Qty

CWAM Nameplate



Step 1.

Choose Letter Size - 7/64" or 1/8".

Check the box for the letter size you want. Then write your lettering in box below the check boxes. Note: 1/8" size letters cannot exceed 9 characters.

Step 2.
Specify Quantity.
Enter the number of nameplates desired in the box on the right.

7/64" Letter Size		11 characters maximum (for 7/64" size letters)
1/8" Letter Size		9 characters maximum (for 7/8" size letters)
1 7	2 3 4	5 6 7 8 9 10 11

Sample Letter Sizes 7/64" Letters: ABCD 1/8" Letters: ABCD

Safety Precautions

Turn off the power to CW series switches before installation, removal, wiring and maintenance. Failure to turn power off may cause electrical shocks or fire hazard.

When wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3.5 terminal screws to a tightening torque of 1.0 to 1.3 N·m. Failure to tighten the terminal screws may cause overheating and fire.

Operating Instructions

Notes for Operation

When using the CW series switches in a safety-related circuit of a control system, observe safety rules and regulations of each country concerning particular applications of the actual machines and facilities. Perform risk assessment before operation to ensure safety.

Operating Conditions

In corrosive gas or high-temperature, highhumidity environments, contact failure due to corrosion or color change or breakage of the housing may occur.

Main parts of the CW series switches are made of plastic. Do not scratch the surface with a sharp object or apply excessive electric shock or load, otherwise the switches may be damaged. In particular, keep the button, lens and bezel from such damage, otherwise appearance and function may be impaired.

Do not apply detergents, cutting oils, or chemicals which may impair the function and appearance of the CW series switches.

Panel Mounting

First remove the contact block and then the locking ring from the operator. Insert the operator into the panel cut-out from the front, tighten the locking ring from the back, then install the contact block to the operator.

Mounting Hole

- 1. Mounting hole dimensions are in compliance with IEC60947-5-1.
- If the anti-rotation projection is removed from the bezel, CW series switches can be mounted in ø22.3mm mounting holes. To remove the anti-rotation projection, remove the gasket and use cutting pliers to break the projection.



Removing and Installing the Contact Unit

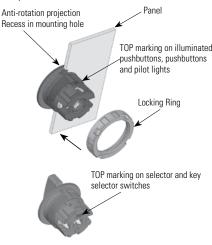
 To remove the contact block from the operator, push the yellow locking lever and turn it to the left.



To install, align the TOP marking on the operator with the TOP marking on the contact block mounting adaptor, and turn the locking lever to the right.

Installation in Panel Cut-out

Remove the locking ring from the operator. With the anti-rotation projection on the operator aligned with the recess in the mounting hole, insert the operator into the mounting hole. Tighten the locking ring from the rear of the panel.



Note for Panel Mounting

When installing the operator in a panel cutout, use the optional locking ring wrench (MW9Z-T1) to tighten the locking ring to a recommended tightening torque of 1.2 N·m. Do not use pliers and do not tighten excessively, otherwise the operator may be damaged.

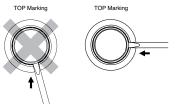
Illuminated Pushbuttons and Pilot Lights

Removing the Lens

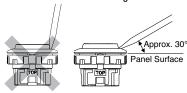
To remove the lens from an illuminated pushbutton or pilot light, insert a flat screwdriver under the flange of the lens at 90° from the TOP marking and twist the screwdriver.

Do not insert the screwdriver too far and do not apply excessive force to the lens, otherwise the bezel surface may be damaged.

Screwdriver Insertion Direction

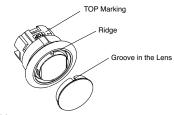


Screwdriver Insertion Angle



Installing the Lens

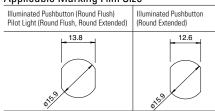
Turn the groove in the lens to the TOP marking on the operator housing. With the groove aligned with the ridge, press the lens in.



Marking

Marking film can be applied for inscriptions or identification.

Applicable Marking Film Size



Thickness: 0.2 mm maximum

Film material: Polyester (recommended)

Note: Film is not supplied and must be provided by the user

Operating Instructions con't

Pushbuttons

Pushbutton caps cannot be removed. Do not tamper with the cap using a screwdriver or pliers, otherwise it may be damaged.

Selector Switches

Turn the selector operator or key to the detent positions.

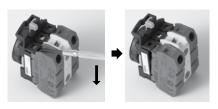
Key Selector Switches

To prevent malfunction and damage, take the following precautions.

- Completely insert the key before turning.
- Do not remove the key while turning.
- Besides the standard key (0H), six other keys are available. Use only a key with a number that matches the number on the switches' key cylinder. (The standard key does not have a key number.)
- Keys are available in two shapes.
 OH (standard), 1H, 2H: reversible keys
 3H, 4H, 5H, 6H: non-reversible keys
 Make sure of correct insertion direction.

Contact Blocks and LED Modules

To remove the contact block from the operator, insert a flat screwdriver under the latch and push the screwdriver down as shown below. Before removing the LED module, first remove all contact blocks, and then remove the LED module in the same manner.



Wiring

Applicable WiresStranded wire: 2.0 mm² maximum (14AWG)

Solid wire: ø1.6 mm maximum

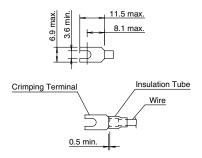


One or two wires can be connected to the terminal.

Applicable Crimping Terminals

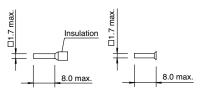
Spade terminal

When using crimping terminals, be sure to use insulating tubes or insulated crimping terminals.



Ferrule

When connecting two ferrules to one terminal, use ferrules without insulation.



When using spade terminals or ferrules, ensure that they are inserted completely. Ring terminals cannot be used.

Screw Tightening Torque

Tighten the M3.5 terminal screws to a recommended torque of 1.0 to 1.3 N·m.



16mm LB Series Miniature Switches

With a choice of metallic or black plastic bezels, and flush or standard mounting, our newest miniature flush mount switches add style and safety to any application. All LB switches are UL recognized, TUV approved, CSA certified and CE marked, as well as provide an IP65 degree of protection. Available in illuminated pushbuttons, pushbuttons, pilot lights, selector switches and key selector switches, these switches are perfect for use with instrumentation, communication equipment, computer peripheral, telecom, medical equipment, food and beverage processing equipment, semi-conductor equipment, non-industrial applications (train cab, parking machines, audio/visual equipment), panels and more!





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